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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 06/17/2009

Raytheon Company 2000 East El Segundo Boulevard, EO/E04/N119 P.O. Box 902 El Segundo, CA 90245

EXAMINER				
WYATT, KEVIN S				
ART UNIT	PAPER NUMBER			
2050				

DATE MAILED: 06/17/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/790.894	03/01/2004	Mary Morabito O'Neill	03W179	2583

TITLE OF INVENTION: METHOD FOR ANALYZING OUTPUT DATA OF ARRAY SUBELEMENTS OF AN IMAGING SEGMENTED ARRAY

I	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1510	\$0	\$0	\$1510	09/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notification.	ted below or directed otl	ng the Patent, advance of herwise in Block 1, by (orders and notification of a) specifying a new corre	maintenance fees v spondence address	vill be ; and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
Raytheon Company 2000 East El Segundo Boulevard, EO/E04/N119 P.O. Box 902			I he Sta add trar	ereby certify that the tes Postal Service values to the Mai	is Fee(vith suf l Stop	e of Mailing or Transı s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile
El Segundo, CA	3 90245						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	<u> </u>	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/790,894	03/01/2004	•	Mary Morabito O'Neill		•	03W179	2583
APPLN, TYPE		ISSUE FEE DUE	A OF ARRAY SUBELEM PUBLICATION FEE DUE	PREV. PAID ISSU			DATE DUE
	SMALL ENTITY				E FEE	TOTAL FEE(S) DUE \$1510	
nonprovisional EXAM	NO MINER	\$1510 ART UNIT	\$0 CLASS-SUBCLASS	\$0]	\$0 		09/17/2009
WYATT.	KEVIN S	2878	250-208100	J			
"Fee Address" inc PTO/SB/47; Rev 03- Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA lless an assignee is ident th in 37 CFR 3.11. Com	" Indication form ned. Use of a Customer A TO BE PRINTED ON ified below, no assignee	(1) the names of up to or agents OR, alternatic (2) the name of a sing registered attorney or 2 registered patent attolisted, no name will be THE PATENT (print or ty data will appear on the pT a substitute for filing an (B) RESIDENCE: (CIT)	vely, le firm (having as a agent) and the namorneys or agents. If printed. pe) patent. If an assign assignment.	n memb les of u no nam	er a 2p to see is 3	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 C	orporati	on or other private gro	up entity 🗖 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	atus (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no lor	CMA	. T. 173.17	PITTY states G = 27 OF	ED 1.07(-)(2)
NOTE: The Issue Fee ar	nd Publication Fee (if req		ed from anyone other than				e assignee or other party in
Authorized Signature	,			Date			
Typed or printed name							
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22	ntiality is governed by 35 and application form to the cions for reducing this bu Virginia 22313-1450. DO	CFR 1.311. The informati I U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain or 1.14. This collection is es y depending upon the indite Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	he publ minutes omment Traden S. SENI	tic which is to file (and to complete, includin s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/790,894 03/01/2004 Mary Mo		Mary Morabito O'Neill	03W179 2583		
75	90 06/17/2009		EXAM	INER	
Raytheon Company		WYATT, KEVIN S			
2000 East El Segundo Boulevard, EO/E04/N119 P.O. Box 902 El Segundo, CA 90245		ART UNIT	PAPER NUMBER		
			2878 DATE MAILED: 06/17/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 706 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 706 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/790,894	O'NEILL ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Kevin Wyatt	2878	
	Kevin Wyatt	2070	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits GHTS. This application is:	n this application. If not included unication will be mailed in due cou	rse. THIS
1. \boxtimes This communication is responsive to <u>the Amendment After</u>	Final filed 06/01/2009.		
2. The allowed claim(s) is/are <u>1-24</u> .			
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d)	or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:			
 Certified copies of the priority documents have 	been received.		
Certified copies of the priority documents have	been received in Application	on No	
Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's	s Amendment / Comment o	r in the Office action of	
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1	.84(c)) should be written on t	he drawings in the front (not the bac	ck) of
each sheet. Replacement sheet(s) should be labeled as such in t	he header according to 37 Cl	FR 1.121(d).	•
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Ir	formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date	
3. Information Disclosure Statements (PTO/SB/08),	7. ☐ Examiner's	Amendment/Comment	
Paper No./Mail Date 4.	8. ⊠ Examiner's	Statement of Reasons for Allowar	nce
-	9.	_•	

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-24 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 13 and 24, the prior art fails to disclose or make obvious a method for locating a position of a feature in a scene comprising, in addition to the other recited steps of the claim, "cooperatively analyzing the output signals from at least two spatially adjacent array subelements to establish a data set reflective of an extent to which output signals responsive to the image of the feature are produced from exactly one or from more than one of the adjacent array subelements, and to reach a conclusion from the data set as to a location of the image of the feature on the segmented array with an accuracy of less than the linear dimension of an array subelement when the output signal is produced from more than one of the adjacent array subelements."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kaltschmidt (U.S. Patent No. 4,950,881) discloses a method and apparatus for tracking a missile.

Tullis (U.S. Patent No. 6,259,111 B1 discloses a system for tracking movement of an object.

Any comments considered necessary by applicant must be submitted no later

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than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Wyatt whose telephone number is (571)-272-5974. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on (571)-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin Wyatt/ Examiner, Art Unit 2878

/Georgia Y Epps/ Supervisory Patent Examiner, Art Unit 2878 Application/Control Number: 10/790,894

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